

Recovery Plan Action Status

Plan Name: Razorback Sucker - Recovery Goals

Plan Status: Final Revision 1

Plan Date: 28-Aug-02

Lead Agency: USFWS

Lead Office: Upper Colorado River Endangered Fish Recovery Program

(803)
969-7322)

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
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| Razorback sucker (Xyrauchen texanus) | 1 | A-1.2 | Provide flow regimes (as determined under Task A-1.1) that are necessary for all life stages of razorback sucker to support recovered populations in the Green River, upper Colorado River, and San Juan River subbasins. | Ongoing Current | Prior to FY 1995 | | Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Acquisition: General, Management: Habitat Maintenance and Manipulation | Contract, Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-2.1 | Continue to provide fish passage over Redlands Diversion and Grand Valley Diversion to allow adequate movement of razorback sucker in the upper Colorado River and Gunnison River (see section 4.1 for a discussion on barriers to fish passage). | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation | Contract, Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-2.2 | Modify Price-Stubbs Dam and Government Highline Dam to allow adequate movement of razorback sucker in the upper Colorado River. | Complete | FY 2000 - FY 2004 | FY 2008 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert | |

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| Razorback sucker (Xyrauchen texanus) | 1 | A-2.3 | Identify, evaluate, and modify (as necessary) barriers on the San Juan River (e.g., Cudei Diversion, Hogback Diversion and PNM Weir) to allow adequate movement of razorback sucker. | Complete | Prior to FY 1995 | FY 2006 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Management Techniques | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-3.1 | Investigate the feasibility of modifying releases from Aspinall Unit dams to increase water temperatures in the Gunnison River that would allow for upstream range expansion of razorback sucker in the Gunnison River (see section 4.1 for discussion on warm-water releases). | Complete | FY 2000 - FY 2004 | FY 2000 - FY 2004 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Research: Management Techniques | Contract, Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-3.2 | Modify releases from Aspinall Unit dams to increase water temperatures in the Gunnison River, if determined feasible and necessary to achieve demographic criteria for the upper Colorado River subbasin. | Obsolete | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

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| Razorback sucker (Xyrauchen texanus) | 1 | A-4.1 | Identify measures (e.g., screens, baffles) to minimize entrainment of subadult and adult razorback sucker at problematic diversion structures, such as the Green River Canal, Grand Valley Irrigation Canal, Government Highline Diversion Project, and the Redlands Canal Company Diversion (see section 4.1 for discussion on entrainment). | Partially Complete | Prior to FY 1995 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation | Internal Technical Assistance, Species Expert | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-4.2 | Install devices and/or implement other measures (as determined under Task A-4.1) to minimize entrainment. | Partially Complete | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation | Contract, Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | A-5.1 | Identify appropriate bottomland sites and assess opportunities for land acquisition or easements. | Complete | FY 1995 - FY 1999 | FY 1995 - FY 1999 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Acquisition, Management: Habitat Maintenance and Manipulation, Research: Management Techniques | Internal Field Assistance, Internal Technical Assistance, Species Expert | |

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| Razorback sucker (Xyrauchen texanus) | 1 | A-5.2 | Acquire or procure easements (as determined under Task A-5.1) for bottomland sites where determined necessary and feasible. | Complete | FY 1995 - FY 1999 | FY 1995 - FY 1999 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Acquisition: Easement | Internal Field Assistance, Internal Technical Assistance | Continued work may be necessary for recovery. |
| Razorback sucker (Xyrauchen texanus) | 1 | B-1.1 | Reevaluate and, if necessary, identify actions to ensure adequate protection from overutilization of razorback sucker for commercial, recreational, scientific, or educational purposes; not currently identified as an existing threat. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management | Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | B-1.2 | Implement identified actions (as determined under Task B-1.1) to ensure adequate protection of razorback sucker populations from overutilization for commercial, recreational, scientific, or educational purposes. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management | Internal Technical Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | C-1.1. | Reevaluate and, if necessary, identify actions to minimize adverse effects of diseases and parasites on razorback sucker populations; not currently identified as an existing threat (see sections 4.3.1 and A.11 for discussion of diseases and parasites). | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Disease Control | Internal Technical Assistance, Species Expert | |
| Razorback sucker (Xyrauchen texanus) | 1 | C-1.2 | Implement identified actions (as determined under Task C-1.1) to ensure adequate protection of razorback sucker populations from deleterious diseases and parasites. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Disease Control | Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | C-2.1 | Develop, implement, evaluate, and revise (as necessary through adaptive management) procedures for stocking nonnative fish species in the Upper Colorado River Basin (including the San Juan River subbasin) to minimize negative interactions between nonnative fishes and razorback sucker. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Internal Technical Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | C-2.2 | Finalize and implement procedures (as determined under Task C-2.1) for stocking nonnative fish species in the Upper Colorado River Basin to minimize negative interactions between nonnative fishes and razorback sucker. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Internal Technical Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | C-3.1 | Develop control programs for small-bodied nonnative fishes (e.g., cyprinids and centrarchids) in backwater and flooded off-channel nursery habitats in river reaches occupied by young razorback sucker to identify levels of control that will minimize negative interactions (e.g., competition and predation; see sections 4.3.2 and A.7 discussion of effects of nonnative fishes). | Ongoing Current | Prior to FY 1995 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | C-3.2 | Implement identified levels (as determined under Task C-3.1) of nonnative fish control in backwater and flooded off-channel nursery habitats in river reaches occupied by young razorback sucker. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Contract, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | C-3.3 | Develop channel catfish control programs in river reaches occupied by razorback sucker to identify levels of control that will minimize negative interactions. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | C-3.4 | Implement identified levels (as determined under Task C-3.3) of channel catfish control in river reaches occupied by razorback sucker. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Contract, Internal Field Assistance | Experimental management continues to identify level of control needed. |
| Razorback sucker (Xyrauchen texanus) | 1 | C-3.5 | Develop northern pike control programs in reaches of the Green River occupied by razorback sucker to identify levels of control that will minimize negative interactions. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Research: Predation | Contract, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | C-3.6 | Implement identified levels (as determined under Task C-3.5) of northern pike control in reaches of the Green River occupied by razorback sucker. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Predator and Competitor Control | Contract, Internal Field Assistance | Experimental management continues to identify level of control needed. |
| Razorback sucker (Xyrauchen texanus) | 1 | D-1.1 | Determine mechanisms for legal protection of adequate habitat through instream-flow rights, contracts, agreements, or other means. | Ongoing Current | Prior to FY 1995 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Acquisition, Management, Other: Regulations | Contract, Internal Administrative, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | D-1.2 | Implement mechanisms for legal protection of habitat (as determined under Task D-1.1) that are necessary to provide adequate habitat and sufficient range for all life stages of razorback sucker to support recovered populations. | Ongoing Current | Prior to FY 1995 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management | Contract, Internal Administrative, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | D-2.1 | Identify elements needed for the development of conservation plans that are necessary to provide for the long-term management and protection of Colorado pikeminnow populations; elements of these plans may include (but are not limited to) provision of flows for maintenance of adequate habitat conditions for all life stages of razorback sucker, regulation and/or control of nonnative fishes, minimization of the risk of hazardous-materials spills, and monitoring of populations and habitats. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Planning | Contract, Internal Field Assistance, Volunteer | |
| Razorback sucker (Xyrauchen texanus) | 1 | D-2.2 | Develop and implement conservation plans and execute agreements among State agencies, Federal agencies, American Indian tribes, and other interested parties to provide reasonable assurances that conditions needed for recovered razorback sucker populations will be maintained. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Planning | Contract, Internal Field Assistance, Volunteer | |

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| Razorback sucker (Xyrauchen texanus) | 1 | E-1.1 | Reevaluate levels of hybridization with white sucker, assess effects on razorback sucker populations, and, if necessary, develop white sucker control programs in river reaches occupied by razorback sucker to identify levels of control that will minimize h | Ongoing Current | FY 2005 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Research: Genetics | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-1.2 | Implement identified levels (as determined under Task E-1.1) of white sucker control in river reaches occupied by razorback sucker. | Ongoing Current | FY 2005 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Reintroduction | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-2.1 | Review and recommend modifications to State and Federal hazardous-materials spills emergency-response plans to ensure adequate protection for razorback sucker populations from hazardous-materials spills, including prevention and quick response to hazardous-materials spills. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Planning | Contract, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | E-2.2 | Implement State and Federal emergency-response plans that contain the necessary preventive measures (as determined under Task E-2.1) for hazardous-materials spills. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Planning | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-2.3 | Identify locations of all petroleum-product pipelines within the 100-year floodplain of critical habitat and assess the need for emergency shut-off valves to minimize the potential for spills. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Planning | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-2.4 | Install emergency shut-off valves (as determined under Task E-1.3) on problematic petroleum-product pipelines within the 100-year floodplain of critical habitat. | Ongoing Current | FY 2006 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Land Use | Contract, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | E-3.1 | Identify actions to remediate groundwater contamination from the Atlas Mills tailings pile located near Moab, Utah, in order to restore water quality of the Colorado River in the vicinity of the pile in accordance with the State of Utah and Environmental | Complete | FY 2000 - FY 2004 | FY 2005 | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Land Use, Other: Regulations | Contract, Internal Field Assistance | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-3.2 | Implement actions (as determined under Task E-2.1) to remediate groundwater contamination from the Atlas Mills tailings pile. | Ongoing Current | FY 2006 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Land Use, Other: Regulations | Contract | |
| Razorback sucker (Xyrauchen texanus) | 1 | E-4.1 | Reevaluate the effects of selenium contamination on razorback sucker reproductive success and survival of young, and, if necessary, identify actions to reduce deleterious levels of selenium contamination. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Research: Environmental Contaminants | Contract, Internal Field Assistance | |

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| Razorback sucker (Xyrauchen texanus) | 1 | E-4.2 | Implement identified actions (as determined under Task E-3.1) to reduce deleterious levels of selenium contamination. | Ongoing Current | FY 1995 - FY 1999 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Management: Habitat Maintenance and Manipulation | Contract, Internal Field Assistance | Stewart Lake (Green River) and "Hot spots" on Colorado River are flushed with river flows to minimize selenium concentrations |
| Razorback sucker (Xyrauchen texanus) | 1 | LB A-1.1 | Identify, implement, evaluate, and revise (as necessary through adaptive management) flow regimes that are necessary for the establishment and maintenance of razorback sucker populations in the mainstem and/or tributaries. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB A-1.2 | Provide flow regimes (as determined under Task A-1.1) that are necessary for all life stages of razorback sucker to support recovered populations in the mainstem and/or tributaries. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

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| Razorback sucker (Xyrauchen texanus) | 1 | LB A-2.1 | Identify measures (e.g., screens, baffles) to minimize entrainment of subadult and adult razorback sucker at problematic diversion and/or out-take structures. | Ongoing Current | FY 2006 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB A-2.2 | Install devices and/or implement other measures (as determined under Task A-2.1) to minimize entrainment. | Ongoing Current | FY 2006 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB A-3.1 | Identify appropriate riverside sites and assess opportunities for land acquisition or easements. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

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| Razorback sucker (Xyrauchen texanus) | 1 | LB A-3.2 | Acquire or procure easements (as determined under Task A-3.1) for riverside sites where determined necessary and feasible. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB B-1.1 | Reevaluate and, if necessary, identify actions to ensure adequate protection from overutilization of razorback sucker for commercial, recreational, scientific, or educational purposes; not currently identified as an existing threat. | Planned | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB B-1.2 | Implement identified actions (as determined under Task B-1.1) to ensure adequate protection of razorback sucker from overutilization for commercial, recreational, scientific, or educational purposes. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

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| Razorback sucker (Xyrauchen texanus) | 1 | LB C-1.1 | Reevaluate and, if necessary, identify actions to minimize adverse effects of diseases and parasites on razorback sucker populations; not currently identified as an existing threat. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB C-1.2 | Implement identified actions (as determined under Task C-1.1) to ensure adequate protection of razorback sucker populations from deleterious diseases and parasites. | Ongoing Current | FY 2006 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB C-2.1 | Develop, implement, evaluate, and revise (as necessary through adaptive management) procedures for stocking and to minimize escapement of nonnative fish species into the mainstem, floodplain, and tributaries to minimize negative interactions between nonnative fishes and razorback sucker. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

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|--------------------------------------|-------------------|----------|---|-----------------|----------------------|----------------------|---|----------------------------|-----------------------------|-----------------|
| Razorback sucker (Xyrauchen texanus) | 1 | LB C-2.2 | Finalize and implement procedures (as determined under Task C-2.1) for stocking and to minimize escapement of nonnative fish species into the mainstem, floodplain, and tributaries to minimize negative interaction between nonnative fishes and razorback sucker. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB C-3.1 | Develop control programs for problematic nonnative fishes in the mainstem, floodplain, and tributaries to identify levels of control that will minimize negative interactions between nonnative fishes and razorback sucker. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB C-3.2 | Implement identified levels (as determined under Task C-3.1) of nonnative fish control in the mainstem, floodplain, and tributaries. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|--------------------------------------|-------------------|----------|---|---------------|----------------------|----------------------|---|----------------------------|-----------------------------|-----------------|
| Razorback sucker (Xyrauchen texanus) | 1 | LB D-1.1 | Determine mechanisms for legal protection of adequate habitat through instream-flow rights, contracts, agreements, or other means. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB D-1.2 | Implement mechanisms for legal protection of habitat (as determined under Task D-1.1) that are necessary to provide adequate habitat and sufficient range for all life stages of razorback sucker to support recovered populations. | Not Started | | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|--------------------------------------|-------------------|----------|--|-----------------|----------------------|----------------------|---|---|--|-----------------|
| Razorback sucker (Xyrauchen texanus) | 1 | LB D-2.1 | Identify elements needed for the development of conservation plans that are necessary to provide for the long-term management and protection of razorback sucker populations; elements of these plans may include (but are not limited to) maintenance of genetic diversity in Lakes Mohave, provision of flows for maintenance of adequate habitat conditions for all life stages of razorback sucker, regulation and/or control of nonnative fishes, and monitoring of populations and habitats. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | LB D-2.2 | Develop and implement conservation plans and execute agreements among State agencies, Federal agencies, American Indian tribes, and other interested parties to provide reasonable assurances that conditions needed for recovered razorback sucker populations will be maintained. | Ongoing Current | FY 2000 - FY 2004 | | Upper Colorado River Endangered Fish Recovery Program, Native Fish Work Group, USFWS - Region 2, Endangered Species & Fisheries, USFWS Region 6, Endangered Species & Fisheries, San Juan River Basin Recovery Implementation Program | Work type not yet selected | Labor type not yet selected | |
| Razorback sucker (Xyrauchen texanus) | 1 | UB A-1.1 | Identify, implement, evaluate, and revise (as necessary through adaptive management) flow regimes to benefit razorback sucker populations in the Green River, upper Colorado River, and San Juan River subbasins. | Ongoing Current | Prior to FY 1995 | | Upper Colorado River Endangered Fish Recovery Program | Management: Habitat Maintenance and Manipulation, Research: Habitat Requirements, Research: Management Techniques | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert | |